

# HISTORIC AMERICAN ENGINEERING RECORD

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CAPE COD AIR STATION,  
TECHNICAL FACILITY/SCANNER BUILDING AND POWER PLANT  
(Cape Cod Air Station, Building 002 and 004)  
Massachusetts Military Reservation  
Sandwich Vicinity  
Barnstable County  
Massachusetts

HAER No. MA-151-A

HAER  
MASS,  
1-SAND.V,  
1A-

Photographer: Bob Kramer

October 1999

- MA-151-A-1 SITE BUILDING 022- SCANNER BUILDING - VIEW IS LOOKING NORTH 70° WEST AT "B" AND "A" FACES.
- MA-151-A-2 SITE BUILDING 002 - SCANNER BUILDING - VIEW IS LOOKING NORTH 80° WEST "B" FACE ALONG BUILDING "A" FACE.
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- MA-151-A-5 SITE BUILDING 002 - SCANNER BUILDING - AT "A" FACE (ON SOUTH SIDE) LOOKING DIRECTLY UP RADAR SYSTEM EMITTER/ANTENNA ARRAY FACE WITH 90MM STANDARD LENS.
- MA-151-A-6 SITE BUILDING 002 - SCANNER BUILDING - AT "A" FACE (ON SOUTH SIDE) LOOKING DIRECTLY UP RADAR SYSTEM EMITTER/ANTENNA ARRAY FACE WITH 65MM WIDE ANGLE LENS.
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- MA-151-A-8 CLOSE-UP OF REAR VIEW OF EMITTER/ANTENNA (TYPICAL DEVICE PHOTOGRAPH).
- MA-151-A-9 SITE BUILDING 002 - SCANNER BUILDING - LOOKING AT "C" FACE RADAR SYSTEM EMITTER/ANTENNA. VIEW IS LOOKING SOUTH 30° EAST (NOTE: "C" FACE NOT IN USE AT FACILITY).
- MA-151-A-10 SITE BUILDING 002 - SCANNER BUILDING - LOOKING AT SOUTHWEST CORNER "B" FACE AND "C" FACE ON WEST AND EVAPORATIVE COOLING TOWER AT NORTH. VIEW IS LOOKING NORTH 45° EAST.
- MA-151-A-11 SITE BUILDING 002 - SCANNER BUILDING - EVAPORATIVE COOLING TOWER SYSTEM IN FOREGROUND.
- MA-151-A-12 SITE BUILDING 002 - SCANNER BUILDING - MAIN ENTRANCE LOOKING AT MAIN ENTRANCE TO TECHNICAL FACILITY, GROUND LEVEL. VIEW IS LOOKING SOUTH 20° EAST.

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- MA-151-A-15 SITE BUILDING 004 - ELECTRIC POWER STATION - VIEW IS LOOKING SOUTH 55° EAST AT FIVE DIESEL ENGINE/ GENERATOR SILENCER SYSTEM EXHAUST STACKS.
- MA-151-A-16 SITE BUILDING 002 - SCANNER BUILDING - FRONT LOBBY VIEW.
- MA-151-A-17 SITE BUILDING 002 - SCANNER BUILDING - COMMANDER'S OFFICE VIEW.
- MA-151-A-18 SITE BUILDING 002 - SCANNER BUILDING - VIEW OF SITE SECURITY OFFICE ACCESS DOOR FROM EXTERIOR OF OFFICE.
- MA-151-A-19 SITE BUILDING 002 - SCANNER BUILDING - AIR POLICE SITE SECURITY OFFICE WITH "SITE PERIMETER STATUS PANEL" AND REAL TIME VIDEO DISPLAY OUTPUT FROM VIDEO CAMERA SYSTEM AT SECURITY FENCE LOCATIONS.
- MA-151-A-20 SITE BUILDING 002 - SCANNER BUILDING - IN COMPUTER ROOM LOOKING AT "CONSOLIDATED MAINTENANCE OPERATIONS CENTER" JOB AREA AND OPERATION WORK CENTER. TASKS INCLUDE RADAR MAINTENANCE, COMPUTER MAINTENANCE, CYBER COMPUTER MAINTENANCE AND RELATED ACTIVITIES.
- MA-151-A-21 SITE BUILDING 002 - SCANNER BUILDING - LOOKING AT DISC STORAGE SYSTEMS A AND B (A OR B ARE REDUNDANT SYSTEMS), ONE MAINFRAME COMPUTER ON LINE, ONE ON STANDBY WITH STORAGE TAPE, ONE ON STANDBY WITHOUT TAPE INSTALLED.
- MA-151-A-22 SITE BUILDING 002 - SCANNER BUILDING - RADAR CONTROL ROOM. RECEIVER EQUIPMENT ON RIGHT WITH RF RADIATION MONITOR CABINET.
- MA-151-A-23 SITE BUILDING 002 - SCANNER BUILDING - RADAR CONTROL INTERFACE "RCL NO. 2" WITH COMPUTER CONTROL DISC DRIVE UNITS IN FOREGROUND.
- MA-151-A-24 SITE BUILDING 002 - SCANNER BUILDING - OPERATIONS CENTER -- MWOC IN OPERATION AT 1924 ZULU TIME. 26 OCTOBER, 1999.
- MA-151-A-25 SITE BUILDING 002 - SCANNER BUILDING - OPERATIONS CENTER - MWOC IN OPERATION AT 1930 ZULU TIME, 26 OCTOBER, 1999. MWOC SCREEN ALSO SHOWS RADAR "FACE A" AND "FACE B" ACTIVE STATUS.
- MA-151-A-26 SITE BUILDING 002 - SCANNER BUILDING - OPERATIONS CENTER - MWOC IN OPERATION AT 1945 ZULU TIME, 26 OCTOBER, 1999. "SPACE TRACK BOARD" DATA SHOWING ITEMS #16609 MIR (RUSSIA) AND #25544 ISS (INTERNATIONAL SPACE STATION) BEING TRACKED.

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- MA-151-A-27 SITE BUILDING 002 - SCANNER BUILDING - OPERATIONS CENTER - MWOC MONITOR NO. 4 IN OPERATION AT 2002 ZULU, OCTOBER 26, 1999 CAPE COD, AS PAVE PAWS.
- MA-151-A-28 SITE BUILDING 002 - SCANNER BUILDING - AT INTERIOR OF LEVEL 5, FACE A - SHOWS ANTENNA RECEIVERS, EMITTERS/RECEIVERS, IN GENERAL ARRANGEMENT.
- MA-151-A-29 SITE BUILDING 002 - SCANNER BUILDING - FLOOR 3A ("A" FACE) AT SYSTEM LAYOUT GRID 17. GENERAL OBLIQUE VIEW OF "A" FACE INTERIOR SHOWING RADAR EMITTER/ANTENNA INTERFACE ELECTRONICS.
- MA-151-A-30 SITE BUILDING 002 - SCANNER BUILDING - FLOOR 3A ("A" FACE) INTERIOR BETWEEN GRIDS 17-A1 AND 18-A1, SHOWING REAR OF RADAR EMITTER ELECTRONIC INTERFACE TERMINAL NO. 3147-20, "RECEIVER TRANSMITTER RADAR" MODULE. VIEW IS ALSO SHOWING BUILDING FIRE STOP MATERIAL AT BOTTOM OF FLOOR. NOTE: WALL SLOPES BOTTOM TO TOP INWARD; STRUCTURAL ELEMENT IN FOREGROUND. VIEW ALSO SHOWS PIPING GRID OF CHILLED WATER LINES FOR ELECTRONIC SYSTEMS COOLING.
- MA-151-A-31 SITE BUILDING 002 - SCANNER BUILDING AT INTERIOR - BACK OF POWER SUPPLY UNITS 3045-17 AND 3046-29.
- MA-151-A-32 SITE BUILDING 002 - SCANNER BUILDING - MECHANICAL ROOM 105, VIEW OF OPERATIONAL SCHEMATIC OF COOLING SYSTEM LOOPS.
- MA-151-A-33 SITE BUILDING 002 - SCANNER BUILDING - MECHANICAL ROOM 105, VIEW OF CHILLER ROOM MOTOR CONTROL CENTER.
- MA-151-A-34 SITE BUILDING 002 - SCANNER BUILDING - ROOM 105 - CHILLER ROOM, SHOWING SINGLE COMPRESSOR, LIQUID CHILLERS AND "CHILLED WATER RETURN", COOLING TOWER "TOWER WATER RETURN" AND "TOWER WATER SUPPLY" LINES.
- MA-151-A-35 SITE BUILDING 004 - ELECTRIC POWER STATION - CONTROL ROOM OF ELECTRIC POWER STATION WITH DIESEL ENGINE POWERED ELECTRIC GENERATION EQUIPMENT IN BACKGROUND.
- MA-151-A-36 SITE BUILDING 004 - ELECTRIC POWER STATION - CLOSE UP VIEW OF 1200 HORSEPOWER STANDBY POWER DIESEL ENGINE/GENERATOR SETS.
- MA-151-A-37 SITE BUILDING 004 - ELECTRIC POWER STATION - ELEVATED VIEW OF FIVE (5) 1200 HORSEPOWER STANDBY - POWER DIESEL ENGINE/GENERATOR SETS.
- MA-151-A-38 SITE BUILDING 004 - ELECTRIC POWER STATION AT INTERIOR - OBLIQUE VIEW AT FLOOR LEVEL SHOWING DIESEL ENGINE/GENERATOR SET NUMBER 5.

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Photographer: Neal Collett,

January 10, 2000

- MA-151-A-39 Photocopy of building model photograph, ca. 1974, photographer unknown. Original photograph property of United States Air Force, 21<sup>st</sup> Space Command.  
CAPE COD AIR STATION PAVE PAWS FACILITY MODEL - SHOWING "A" AND "B" FACES.
- MA-151-A-40 Photocopy of building model photograph, ca., 1974, photographer unknown. Original photograph property of United States Air Force, 21<sup>st</sup> Space Command.  
CAPE COD AIR STATION PAVE PAWS FACILITY MODEL - ELEVATION SHOWING FLOOR AND EQUIPMENT LAYOUT.
- MA-151-A-41 Photocopy of progress photograph ca. 1974, photographer unknown. Original photograph Property of United States Air Force, 21<sup>st</sup> Space Command. This is the source for views 41 to 47.  
CAPE COD AIR STATION PAVE PAWS FACILITY - SHOWING BUILDING "RED IRON" STEEL STRUCTURE NEARING COMPLETION.
- MA-151-A-42 CAPE COD AIR STATION PAVE PAWS FACILITY - SHOWING BUILDING "RED IRON" STEEL STRUCTURE AT 46<sup>TH</sup> DAY OF STEEL CONSTRUCTION. "BUILDING TOPPED OFF, 7 JULY, 1974.
- MA-151-A-43 CAPE COD AIR STATION PAVE PAWS FACILITY - WITH BUILDING METAL SIDING BEING APPLIED ON "C" FACE (RIGHT) AND "B" FACE BEING PREPARED FOR INSTALLATION.
- MA-151-A-44 CAPE COD AIR STATION PAVE PAWS FACILITY - BUILDING ELEVATION WITH BUILDING METAL SIDING BEING APPLIED ON "B" FACE.
- MA-151-A-45 CAPE COD AIR STATION PAVE PAWS FACILITY - BUILDING ELEVATION VIEW WITH BUILDING METAL SIDING BEING APPLIED ON "A" FACE (LEFT) AND "B" FACE (RIGHT). NOTE THAT NORTH IS GENERALLY TO RIGHT OF VIEW.
- MA-151-A-46 CAPE COD AIR STATION PAVE PAWS FACILITY - BUILDING ELEVATION VIEW WITH ALL METAL SIDING INSTALLED AND WITH EMITTER/ANTENNA ARRAY SYSTEM NEARING COMPLETION ON "B" FACE (RIGHT). VIEW ALSO SHOWS TRAVELING "CLEANING" SYSTEM ON "B" FACE - NOW REMOVED.
- MA-151-A-47 CAPE COD AIR STATION PAVE PAWS FACILITY AERIAL VIEW OF "A" FACE (LEFT) WITH CLEANING SYSTEM INSTALLED (NOW REMOVED) AND "B" FACE (RIGHT) WITH CONSTRUCTION CRANE IN USE.
- MA-151-A-48 Photocopy of Architectural Layout drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
AL-2 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - EQUIPMENT LAYOUT - SECOND FLOOR AND PLATFORM 2A. DRAWING NO. AW35-46-06

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- MA-151-A-49 Photocopy of Architectural drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
A-4 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - THIRD FLOOR AND PLATFORM 3A. DRAWING NO. AW35-46-06
- MA-151-A-50 Photocopy of Architectural drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
A-5 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - FOURTH FLOOR AND PLATFORM 4A. DRAWING NO. AW35-46-06
- MA-151-A-51 Photocopy of Architectural drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
A-6 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - FIFTH FLOOR AND PLATFORM 5A. DRAWING NO. AW35-46-06
- MA-151-A-52 Photocopy of Architectural drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
A-10 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - ELEVATION A, B AND C. DRAWING NO. AW35-46-06
- MA-151-A-53 Photocopy of Structural drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
S-4 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - FIRST FLOOR PLAN. DRAWING NO. AW35-46-06
- MA-151-A-54 Photocopy of Structural drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
S-14 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - ARRAY DETAILS. DRAWING NO. AW35-46-06
- MA-151-A-55 Photocopy of Structural drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
S-15 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - UTILITY BUILDING. DRAWING NO. AW35-46-06
- MA-151-A-56 Photocopy of Mechanical drawing, dated August 6, 1976 by Raytheon Company. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
H-12 - PAVE PAWS TECHNICAL FACILITY - OTIS AFB - EQUIPMENT ROOM PLANS. DRAWING NO. AW35-46-06
- MA-151-A-57 Photocopy of Architectural Layout drawing, dated 25 June, 1993 by US Air Force Space Command. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command.  
AL-3 PAVE PAWS SUPPORT SYSTEMS - CAPE COD AFB, MASSACHUSETTS - LAYOUT 1<sup>ST</sup> FLOOR AND 1<sup>ST</sup> FLOOR ROOF. DRAWING NO. AL-3 - SHEET 4 OF 21.

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- MA-151 -A-58 Photocopy of Architectural Layout drawing, dated 25 June, 1993 by US Air Force Space Command. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command. AL-5 PAVE PAWS SUPPORT SYSTEMS - CAPE COD AFB, MASSACHUSETTS - LAYOUT 3<sup>RD</sup>, 3A, 4<sup>TH</sup> LEVELS. DRAWING NO. AL-5 - SHEET 6 OF 21
- MA-151 -A-59 Photocopy of Architectural Layout drawing, dated 25 June, 1993 by US Air Force Space Command. Original drawing property of United States Air Force, 21<sup>st</sup> Space Command. AL-6 PAVE PAWS SUPPORT SYSTEMS - CAPE COD AFB, MASSACHUSETTS - LAYOUT 4-A, 5<sup>TH</sup> & 5-A. DRAWING NO. AL-6 - SHEET 7 OF 21.